



Deploy solar panels in $\frac{1}{2}$ the time and $\frac{1}{2}$ the risk with the world's first AI-enabled solar installation robot.

AES' solar installation robot – Maximo – makes solar deployment faster, safer and more cost-effective¹.

Maximo automates the heavy lifting of solar panels and accelerates the installation process to deploy more solar panels in half the time, half the risk¹.

Maximo reduces time to power, enhances safety and accessibility, and enables EPCs² and solar project developers to deliver more solar cost-effectively and efficiently than traditional installation methods.



Maximo to help build up to 5 GW of AES' solar pipeline over the next 3 years



Nearly 15 MW installed to date



Deployed across America



What makes Maximo unique?

Maximo is the only solution that provides full end-to-end automation for the mechanical installation of solar modules.

- Pick up panel
- Place on rack
- Torque to attach

(1) When compared to traditional installation methods. (2) Engineering, Procurement and Construction companies.



Features and benefits



Speed

- Reduces mechanical installation times of solar modules by 50%
- High-speed robotic arm performs precise panel placement
- Lower robotic arm tightens clamps for fully automated installation



Easy adoption

- Technology agnostic to any solar module, and quickly expanding to a wide range of clamps, rails and trackers
- Track system ground clearance enables use on difficult terrain



Scale

- Capable of operating carbon-free on a mobile microgrid for extended shifts
- Enables more accessible high tech energy jobs by reducing strenuous physical requirements



Intelligence

- AI pipelines enable continuous learning and adaptation
- Lidar and cameras create spatial awareness for precise panel placement
- Simple operator interface to control robot
- Weather station monitors site conditions
- Construction analytics track installation data for continuous improvement



Performance

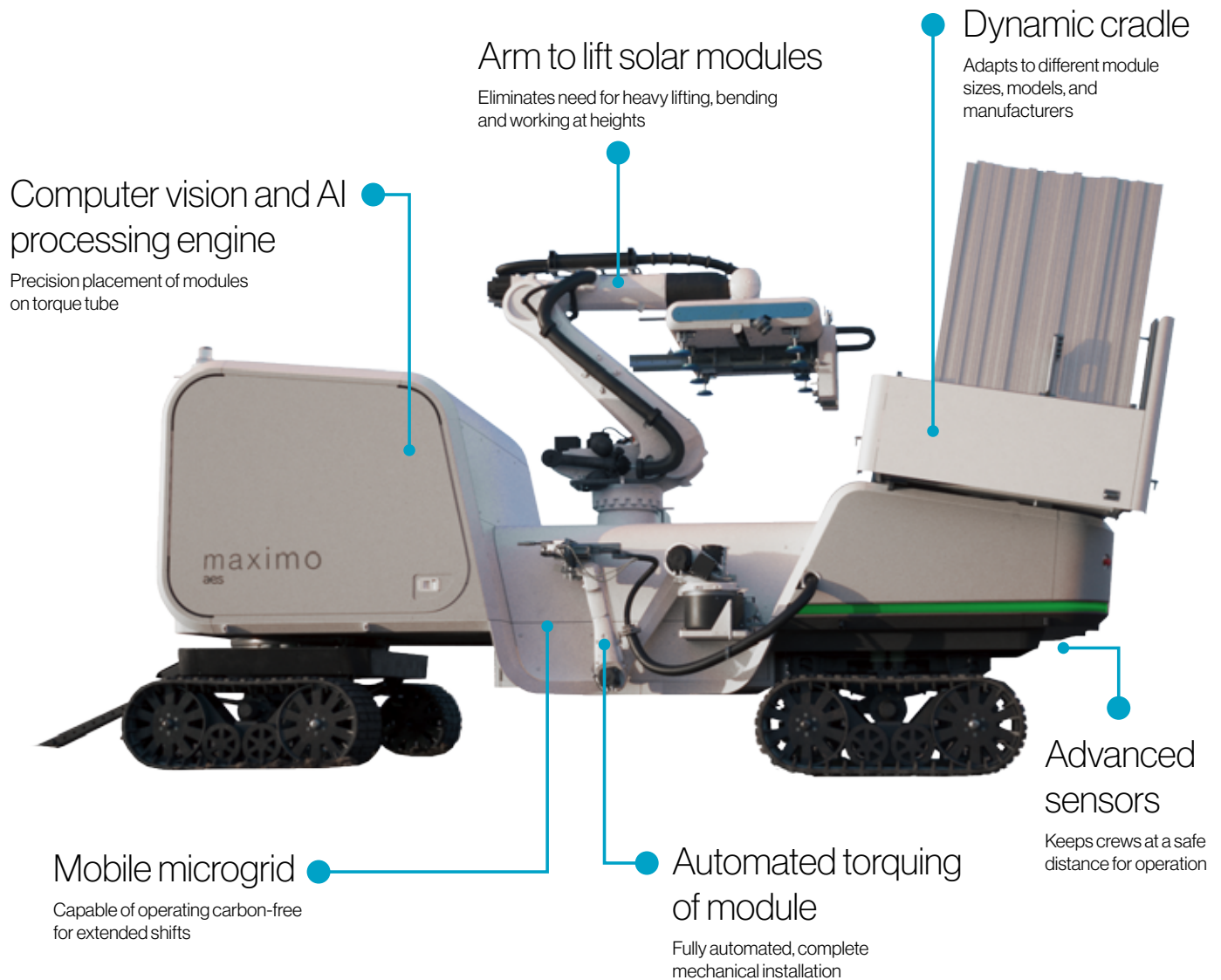
- Installs in a variety of outdoor environments and weather conditions, including high heat, low temperatures, and rain
- Deployable to difficult sites, including remote locations and desert climates
- Performs strenuous, repetitive heavy lifting of solar modules as a partner to construction teams



Safety

- Advanced sensing technology detects people in working area and stops operation
- Safety switch held by operator
- Operates on wide range of torque tube heights, increasing safety for people working at height
- Eliminates the strenuous lifting and repetitive bending by crews

Features and benefits



Maximo in action



Maximo to transform the **largest permitted solar-plus-storage project in the US** with Amazon

Maximo will accelerate the Bellefield solar project's efficiency and timelines, overcoming desert conditions to help power Amazon's operations.

Bellefield solar + storage project



1 GW solar + 1 GW energy storage



Kern County, CA



COD* expected: Q3 2025



Maximo delivers megawatts **in record time**

Maximo's first MW-scale deployment at the Cavalier solar project in Virginia showcases its speed, safety, and efficiency.

Cavalier solar project



198 MW solar



Elberon, VA



COD expected: Q3 2024



Maximo at the heart of **AES' Innovation Hub**

Maximo's capabilities were tested and validated at AES' MacGregor Park, where it successfully installed solar modules, solidifying its role in AES' innovation strategy.

MacGregor Park solar project



647 kW solar



Dayton, OH



COD expected: Q3 2024



Maximo deployed at **1st utility-scale solar project**

Maximo's utility-scale debut at Oak Ridge highlights its ability to maintain efficiency and safety in extreme heat, bringing low-cost, clean energy to Louisiana.

Oak Ridge solar project



260 MW solar



Morehouse, LA



COD: Q4 2023

*Commercial Operational Date. Maximo is installing a portion of each of the four solar projects.

Why AES?



Incubating high-growth businesses in the energy transition

Maximo's development leverages AES' track record of incubating high-growth businesses – [Fluence](#), [5B](#), [Motor](#), and [Uplight](#) – that drive the energy transition forward. As one of the world's leading renewables players, AES is at the forefront of enabling customers to unlock their full potential amidst the solar industry's rapid transition towards automation.

Validated within our own pipeline, Maximo is the solar automation solution to empower leading EPCs and developers to deliver more megawatts in less time, improving cost-competitiveness and capital efficiency.

Maximo scales solar faster,
safer and more cost-effectively.

Discover how Maximo can enable EPCs and developers to deliver more megawatts in less time by deploying solar panels in half the time and half the risk.

Sign up for solution updates →



Connect with AES' Maximo team at
aes.com/maximo

